

Muhammad Ahsan

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Objective

Passionate Software Engineer with a strong foundation in software development, problem-solving, and cutting-edge technologies. I have hands-on experience in AI, NLP, web development, DevOps and Cloud Computing. My roles as a freelancer, teaching assistant, and intern have honed my ability to develop scalable and efficient solutions. I am eager to contribute to Techlogix's mission of delivering innovative and high-performance software solutions.

Experience

Backend Developer

AdRightly

Sep 2024 – Jan 2025

- Worked as a Backend Developer on an Ecommerce Solution project, Shopilam, collaborating on API development, testing (Postman), integration, and deployment (CI/CD). Gained experience in Agile workflows, SDLC, and cross-functional team collaboration.

Research Work

FAST-NUCES

Sep 2024 – Dec 2024

- Collaborated with a faculty mentor to develop an AI-powered Phishing Detection Tool using the BERT model to classify email links. Integrated Google Cloud APIs and OAuth for secure access, built a Chrome extension for real-time detection, and automated deployment with CI/CD and PyTest. [\(Code here\)](#)

Education

FAST-National University of Computer and Emerging Sciences

Sep 2021 – Jun 2025

- BSc Computer Science, CGPA: 3.50/4.00
- Relevant Course Work:** Programming Fundamental, Object Oriented Programming, Data Structure, Algorithms, Database, OS, Computer Network, AI Natural Language Processing, Information Security, Software Engineering, Web development, Generative AI, Software Testing, DevOps, Cloud Computing.

Projects

ArtVerse | FYP

[Reactjs, Node.js, MongoDB, CLIP+FAISS, Blockchain, Open.AI API integration, REST API, LLMs]

- Developing ArtVerse, a digital platform for artists to showcase, sell, and auction artwork while ensuring authenticity through asset management and provenance tracking. It integrates secure payments and AI-driven image analysis to enhance curation. By connecting artists with buyers, ArtVerse simplifies transactions, enhances customer experience, and fosters a global art community. [\(Code here\)](#)

AI-Powered Video Dubbing Tool

[Python, Whisper AI, ffmpeg, xttts, Demucs, Streamlit]

- An advanced dubbing solution that converts Urdu videos to English with seamless lip-syncing. It transcribes audio via Whisper, processes it with FFmpeg, and generates the original speaker's voice using XTTS. This enables influencers to dub Urdu content effortlessly for social media. [\(Code here\)](#) [\(Try it here\)](#)

Automated Network Topology Deployment | Freelancing

[CML, Ansible, Jenkins, Bash, YAML, WSL, Git/Github]

- Automated CML network topology deployment using Ansible, Jenkins, and CI/CD, ensuring seamless provisioning, testing, and failure detection for hands-free management. [\(Code here\)](#)

Fine Tuning GPT-2 for Math Riddle Generation

[Fine tuning, GPT2, LORA, Huggingface]

- Fine-tuned GPT-2 for math riddle generation, comparing LoRA for efficiency vs. full fine-tuning for deeper adaptation, and deployed on Hugging Face Spaces. [\(Code here\)](#) [\(Try it here\)](#)

Skills

Technical Skills: Python, C/C++, Nodejs/Expressjs, Reactjs, SQL/NoSQL, Docker, CICD, AWS, Google Cloud, Git/GitHub,

Soft Skills: Communication skills, Teamwork, Problem Solving , Adaptability

Certificates/Achievements

- Certified Teaching Assistant for 300+ students in multiple subjects.
- Volunteered with [TCF](#) to educate underprivileged students.
- Secured a high rank in Punjab Board with 98.5% in Intermediate, PEEF Scholar.
- Dean's List (Six semesters)

Publications

- Read my research work and blogs on my [Medium Profile](#).